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PV2 GPS Vehicle Tracking System

User Manual

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Web version online tracking server:http://camera.gpstracker.net.in user name: with your username given, password: with your password given

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Camera model: subjected to availability of the stock

Chapter One: Product Introduction

ZG007 satellite GPS positioning system is a new product which combined of location, tracking and anti-theft, listening to monitor, emergency for help, take photo, release advertisement, vehicle scheduling function. It has unique features of small size and exquisite, easy-to-use, complete function and other characteristics, support over voltage, over current protection, it can be applied to 12~33V vehicles and other mobile object monitor positioning services.

1.Product features:

1, Support GPS and base station dual module localization

2, Support GSM all frequency, it is suitable for all over the world 3,
It can be expanded, can support a variety of external equipment

4, Through the platform software, it can take photos and release advertisement 5, Support 1CH user-defined alarm trigger and link with the original car alarm 6, Built-in vibration sensor, support vibration alarm

7, Support power off alarm, built-in geo-fence alarm, emergency alarm, GPS antenna open/short circuit alarm, trailer alarm, overtime parking alarm, platform/text message to arm/disarm,etc.

2. Main Functions:

One: Location

(1) Check car's real-time location by user request.

(2) Report by timing interval: The vehicle terminal will automatically upload position info to monitoring center by the time which management person set up in advance.

(3) Blind are report: When the vehicle enters the area without GPRS signal, the terminal will save the position data automatically, after it obtains the GPRS signal, it will upload the position data which saved before to monitoring center.

(4) Latest effective position: The last position before the car enters the signal blind area.

(5) Mobile phone checking:

Support checking the vehicle's position and driving speed by
SMS Support gaining vehicle's position with google link by SMS

Support getting the vehicle's position with detailed address info by SMS(If for overseas, customers should provide the local mapinfo map.)

Two: Controlling

(1) Intelligently stop Engine(Fuel) by force: Built-in oil&electricity cutting relay, The terminal will cut the oil intermittently after receiving the command. Several minutes later, the car will be stop and locked.

(2) Remotely recover Engine(Fuel): The terminal will recover oil&electricity after receiving the commands of this.

(3) Monitor the sound around the tracker: When the vehicle happened to abnormal situation, the monitoring center can set monitor service number, Issued monitor sound command, to achieve monitor sound remotely.

(4) Photo taking function: Can connect 1CH or 2CH external cameras, and taking the photos locally by issue the command from server. (Optional function)

(5) LED advertisement screen function: Can connect 1CH external LED screen (such as the TAXI advertisement LED screen), and advertise the content by issue the command from server. (Optional function)

(6) Wireless remote control function: Can work with wireless receiver(315/433mhz), Using remote controller to ARM/DISARM the car in some distance. (Optional function)

(7) Oil collection alarm function: Can record the oil volume of oil tank capacity inside the car at real-time, can check the currently oil volume via SMS, can set oil-stollen or oil missing alarm notice(Alarm report through platform or SMS), to avoid car oil-stollen, oil missing,etc. (Extension function, this function should connect an external oil sensor or oil collector.)

Three: Alarm

(1) Overspeed alarm: When the car over an upper speed which was set up by center, the car terminal will automatically report the overspeed alarm to center.

(2) Idle speed alarm: When the car lower the lowest speed which was set up by center, the car terminal will automatically report the idle speed alarm to center.

(3) Fatigue driving alarm: the driver who drive long-distance transportation more than the prescribed period of time which was set up by center. the car terminal will automatically report warning fatigue driving to the center.

(4) The border crossing alarm: when vehicles get into/out of the area which user prohibited entering, the car terminal will report alert to the center.

(5) Overtime parking alarm: when vehicles in driving, if parking time over the prescribed period of time which was set up by center, the car terminal will automatically report alarm to the center.

(6) Emergency alarm: when you have an emergency (such as: meet hook or need assistance) , press the alarm button, emergency alarm information was reported immediately to the center and call

management phone, at the same time, the LED display advertising SOS suggest (should install external LED screen already)

(7) Illegally starting alarm: when vehicle is armed, and did not disarm, power on it directly, monitoring center will receive illegally starting alarm info.

(8) Illegally moving alarm: when vehicle is armed, and did not disarm, when the car was moved, monitoring center will receive moving alarm info.

(9) GPS antenna cutting alarm: GPS antenna open/short circuit, the car terminal will automatically report GPS antenna cutting alarm info to the center.

(10) Vibration alarm: when vehicle is armed, if there is vibration it will send alarm.

(11) Cut off electricity alarm: when vehicles external power supply is cut off , it will send alarm.

(12) Trailer alarm: If the vehicle was moved in the status of vehicle engine(ACC) is not started, it will send an alarm info.

(13) Oil volume alarm: When the oil is lower the pre-set value, it will take place alarming.

Four: Mileage statistics

The system can figure out the driving mileage on the very day automatically,also you can check and calculate the mileage in any period of time.

Five: Customize of high/low TTL signal detection

The terminal will reserve one TTL electrical level(high or low level according to the user-defined) to input signal detection line.The user can customize the signal detection function on the basis of their needs.(For example,it can connect with the original siren in the vehicle to realize the linkage alarm.)

Six: The function of remote maintenance and automatic maintenance

(1) Can check the information of the terminal remotely, such as the version No. of the terminal software, GPRS parameter, the ID No. of the main unit, the time serial number etc. Can reboot and repair the terminal remotely.

(2) The terminal will reboot the GPRS or GPS communication module automatically if it works abnormally.

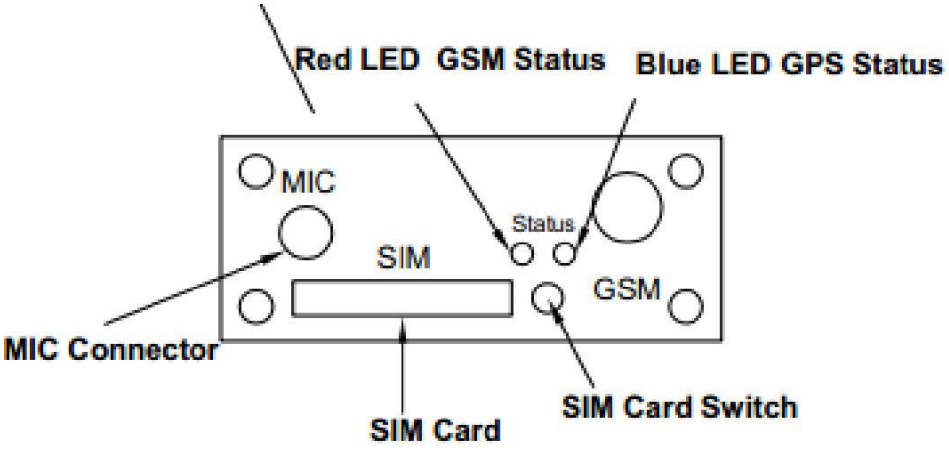
Chapter Two: State instructions

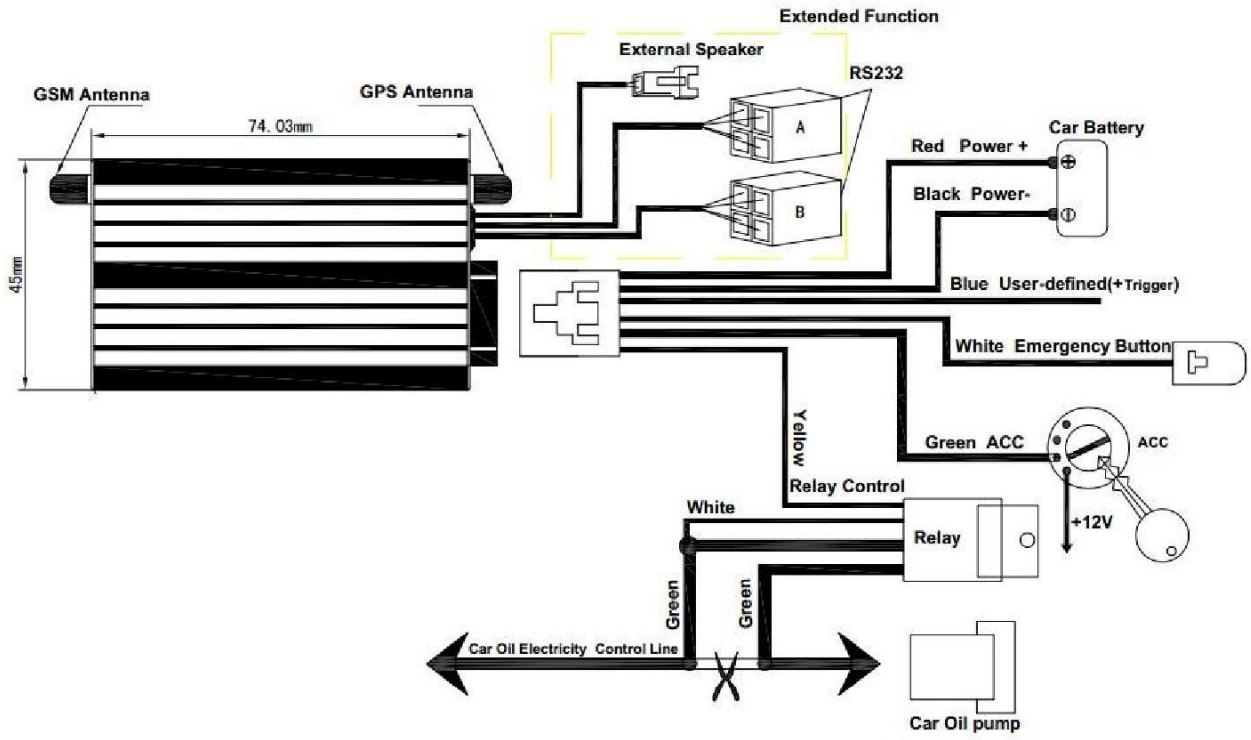
LED light	ON	OFF	State description
Red	0.5s	1s	Searching GPS networks
Red	0.5s	3s	GPRS networks normal
Red	0.5s	0.5s	Transmitting GPRS data
Red	Normal OFF		GSM module doesn't work
Green	0.5s	0.5s	GPS didn't gain location
Green	0.5s	3s	GPS already gain location
Green	Normal ON		GPS antenna short circuit or open-circuit problem
Green	Normal Off		GSM module doesn't work problem

Chapter Three: Main unit installation

1. Installation SIM card

2. Host connection diagram





3. GPS/GSM Antenna installing

The location of device is recommended to install in the following locations and require ensuring the right way, at the same time, please pay attention to the concealment.

1) In front bumper or near the headlight.

2) Between the rear case of the engine and windshield glass.

3) Before the bottom of the windshield and instrument, black face on. (Note: Instrument panel with the most centralized place, with many metal supporting places, so please put it in the

upper place, and avoid vehicle cables and speak or air condition where with strong magnetic,distance with 20CM

4) The back seat of the cab below the rear windshield.

Note:

GPS positioning device during the installation process as far as possible to ensure that plane up, and GPS 60 degrees above GPS is without metal shielding material.

Chapter Four: Terminal function setting

Comparision List of car GPS tracker commands (All the commands are through password + command + content, setting by SMS, the terminal's default password is 0000 from factory.)

in different countries, there are many different operators have different APN access. Before using GPRS function, users must set correct SIM card operator's APN. You can also make call to SIM card operator to know the details. If the APN contains no user name and password, please don't fill the last two items in the message content.

Comparision List of Car GPS Tracker commands

All commands as below are by SMS. **Settings:**			
		Commands	**Example**
1	APN Setting	**1.PasswordAPNAPN'name** **2.**If GPRS user and password is not null, **PasswordAPNAPN'name,GPRS User'name,GPRS Password**	1.**0000APNcmnet** 2.User name: internet, Password: internet. **0000APNcmnet,internet, internet**
2	Server Setting	**PasswordIPIP Adress,Port Number**	**0000IP124.232.150.158,9500**
3	GPRS Status Setting	Activate GPRS: **PasswordGPRSON** Disactivate GPRS: **PasswordGPRSOFF** Default as GPRS OFF.	**1.0000GPRSON** **2.0000GPRSOFF**
4	Setting Alarm Phone Number	**1.PasswordTEL1Tel'Number** **2. PasswordTEL2Tel'Number** **3. PasswordTEL3Tel'Number**	**1.0000TEL113800138000** **2.0000TEL213800138000** **3.0000TEL313800138000**

5	Delete Alarm Phone Number	**1.PasswordDELTELTel.No(1--3)** **2. PasswordDELTELALL**	**1.0000DELTEL1** **3.0000DELTEL2** **4.0000DELTEL3** **4.0000DELTELALL**
6	Relay Setting	ACCON:**PasswordACCON** ACCOFF: **PasswordACCOFF**	**1.0000ACCON** **2.0000ACCOFF**
7	Reboot Device	**PasswordREBOOT**	**0000REBOOT**
8	Voice Monitor	**PasswordMON**	**0000MON**
9	Modify User Password	**PasswordPWNew'Password(4 digits)**	**0000PW1111**
10	Back to Factory setting	**PasswordRESET**	**0000RESET**
11	Time Zone Setting	**PasswordGMTE/W,hours,minutes** E /W: East time zone/West time zone Time zone(hours) range:0~12 ; Time zone(minutes) range:[00/15/30/45]	**Hawaii:0000GMTW,10,00**
12	GPRS time interval setting	**PasswordTIMERinterval time1,interval time2** **Interval time range:** 10-18000s. **interval time1:** For the upload interval time during parking, Default as 60s **interval time2:** For the upload interval time during driving, Default as 30s	**0000TIMER60,30**
13	Device Arm/Disarm	**ARM:PasswordARM** **DISARM:PasswordDISARM** Default as DISARM.	**1.0000ARM** **2.0000DISARM**
14	Allow/Forbidden server to cut the oil electricity	**ALLOW:PasswordA11** **FORBIDDEN:PasswordA10** Default as FORBIDDEN	**1.0000A11** **2.000A10**
15	Open/Close Trailer Alarm Function	**OPEN:PasswordB11** **CLOSE:PasswordB10** Default as CLOSED	**0000B11** **0000B10**
16	Open/Close Original Car Relevance Alarm Function	**OPEN:PasswordC11** **CLOSE:PasswordC10** Default as CLOSED	**0000C11** **0000C10**

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17	Open/Close illegally ACC ON Alarm	**OPEN:PasswordD11** **CLOSE:PasswordD10** Default as CLOSED	**0000D11** **0000D10**
18	Open/Close Vibration Alarm	**OPEN:PasswordE11** **CLOSE:PasswordE10** Default as CLOSED	**0000E11** **0000E10**
19	Open/Close Geo-fence Alarm SMS Notify	**OPEN:PasswordF11** **CLOSE:PasswordF10** Default as CLOSED	**0000F11** **0000F10**
Checking			
20	Location and Status checking	**PasswordCHECK**	**0000CHECK** Feedback: GPS Time:12:00 12/05/05 GPS Status:A (or V) Lat:22.540395,N Lon:114.077968,E Speed:0.00 Car Status:ACC ON (or ACC OFF) Drive Status: ARM(or DISARM)
21	Location checking (Get Google Map link)	**PasswordGMAP**	**0000GMAP** Feedback: http://www.google.com/xhtml?site=local&gl=EN&q=22.540395N,114.077968E
22	LBS Checking	**PasswordLBS**	**0000LBS** Feedback: MCC:460 MNC:00 LAC:10133 Cell ID:05602
23	Checking GPRS Parameter	**PasswordGPRSC**	**0000GPRSC** Feedback: GPRS Status:Online (or OFFLine) IP:124.232.150.158:9500 APN: cmnet S/N(ID):88888888

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			IMEI:359772032387509
24	Checking Device Parameter	**Password**DEVC	**0000DEVC** Feedback: Drive Status: ARM(or DISARM) ACC Status:ON (or OFF) GSM CSQ:29 Vibration Pickup:2 ON/OFF Parameter:00000000 S/N(ID):88888888
25	Checking Alarm Phone Number	**Password**TELC	**0000TELC** AXXXXXXXXXX BXXXXXXXXXX CXXXXXXXXXX
26	Checking Drive Version	**Password**VER	**0000VER** Feedback: Hardware Version:V1.0 Software Version:V1.0 Build Date:10:33:26/May 10 2012
27.	Auto image upload	**0000PVAL10**	You get reply as auto time interval ok for every 10mins

Chapter Five: Technical parameters

Working voltage	9V -- 33V DC
Working current	30 mA --60 mA（DC）
Backup battery	500 mAH
Size	73×45×18.5mm
Weight	0.19kg
Working temperature	-20℃ --80℃
Working humidity	5% -- 95%

GSM frequency range	850MHz / 900MHz / 1800 MHz / 1900 MHz
GPS module	Siemends 10th class AGPS
GPS sensitivity	-179Db
GPS frequency	1575 MHz
Positioning accuracy	O TO 5METRES
Cold start	< 48s(Average value ）
Hot start	< 8 s (Average value ）

Chapter Six: Standard package list and accessories

Name	QTY	Photos	Function
GPS vehicle tracker main unit	1PCS		Main Unit
GSM antenna	1PCS		Receiving GSM signal
GSM antenna	1PCS		Receiving GPS signal
Relay	1PCS		For cutting off oil and electricity
6 pin cables	1PCS		Power cable, Connection cable

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Microphone	1PCS		Monitoring/Listen in	
Emergency button	1PCS		Meet emergency, send help to the center	

Standard software external function: Connection with 2CH cameras, it can take photos through platform.

Note:1. to know **additional features of server** plz click on this link. http://www.gpstracker.net.in/cameraserversupport.html
2.for instructions file **download** from below link http://www.gpstracker.net.in/QuickSetup_Downloads/pv2manual.pdf
3..Download **android pv2 settings configure** application : http://gpstracker.net.in/download/Gps%20Settings.apk
4.Download **desktop monitor application** from http://www.gpstracker.net.in/camera_gps.zip
5.Download **android monitor application** from http://gpstracker.net.in/download/camera%20gps%20.apk
6.forother network sim card apn names: http://www.gpstracker.net.in/download/apnnames.pdf

If you have any more queries regarding installation please can call us on **09700025002** or **040 64559002** or mail us at **contactus@gpstracker.net.in** website: **www.gpstracker.net.in** 13-100 meerpet, Hyderabad 97

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